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SUBJECT Monazite Mining in North Korea

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- 1. The North Korean government began its rare mineral production program in June 1948. In October 1948 about 60 tons of monazite from the Cholsan (124,-40, 39-46) mine were exported to the Soviet Union for research purposes. The North Koreans exchanged monazite for Soviet tanks and other war materials. In 1949, about 7,000 tons were shipped and in 1950 about 10,000 tons to the Soviet Union.
- 2. From August 1949, when the three major mines at Cholsan, Sinchon (125-29) 38-20), and Taedong (124-44, 39-11) began full production, until May 1950, mining was under the Mining Control Burcau. In May 1950, control was shifted to the Special Metals Section of the North Korean Ministry of Industry.
- 3. The Cholsan mine employed 17 technicians, 400 clerks, 500 experts, and 22,500 laborers. The Sinchon mine employed 6 technicians, 150 clerks, 300 experts, and 2,700 laborers. The Taedong mine, which closed in January 1950 because of poor drainage, employed 1 technician, 40 clerks, 100 experts and 459 latorers.
- The following is a table of estimates made by a Soviet expert, Botikov, for the major mines in 1948;

		Heavy Sands Deposit		Nonezi te Deposit	Quantity of Monazite Per Ton of Feavy Sand	
	Cholsan	10,000,000	tons	100,000 tons	l,000 grams	
	Sincho	7,500,000	tons	50,000 tons	150 grams	
	laedong	7,500,000	tons	50,000 tons	150 grams	
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5. The neavy sands at the Tacdong and Sinchon mines contain the following percentages of these minerals:

ThO2	(Thorium) 9	49،	Y203	2,47
Gବ୍ଦନ୍ତି	28.	.25	¥203 Fe203	1,65
16203	27.	.87	₽₂Õ₃´	26.07
SiCo	1.	₂ 85	UÕo	.15

Small amounts of CaO, Pb), H2O and CO2 are also found. These figures apply generally to the Cholsan mine, except that the thorium content is from five to eight percent.

- 6. Other mines operating in North Korea in late March 1951 are as follows:
 - a. The Chongam-ni (125-40, 39-17)-Sinhung-ni (125-38, 39-16) area mine averages production of 6) tons of monazite, with a thorium content of from 15 to 30 percent, daily. The mine employs 5,000 men, who produce four to eight nounds each daily.
 - b. The Uliyul (125-12, 38-31) mine, which opened in January 1950, employs over 10,000 men who produce 14 to 20 pounds each daily. Their pay is about 20 won per pound. The thorium centent is from 50 to 60 percent.
 - c. The mine at Suan (125-22, 38-42) is most productive (figures not given), slt loven the thorium content is love.
- To The following are test mines operated by the North Korean Government:

Chungsang-ni (125-56, 39-39) Cuppo-ri (125-59, 39-18) Cup-dong (124-58, 39-45) Canjin-dong (130-09, 42-07) Cin-ni (126-31, 39-49) Cupyong-ni (126-06, 39-15)

8. Deposits estimated at 23,000,000,000 tons of heavy sand, untouched because of labor costs, are in the following areast

Monsan (127-27, 39-09) to Kosong (128-17, 38-42) Kwankue-myon (130-05, 43-08) Mongyon (126-12, 39-50), Kaschon (125-54, 39-42), Pakchon (125-31, 39-44) Musong (125-15, 39-59), Changjin (127-15, 40-23) areas.

- 9. The ore sand is processed by the specific gravity method into heavy and someral sands. The heavy sands are then processed by magnetic concentration into monazity and other metals such as iron and time. The monasity in final concentration is about 60 percent ThO_0 $C > O_3$.
- 10. The monazite is packed in cotton cloth bags weighing, from 20 to 50 kilograms each and loaded onto freight case. In the Cholson area it is shipped from Chayon bean (125-43, 39-51) station; it the Sinchon area from the Samehon (125-20, 98-21 station; and in the Tasdang area area the Sunan (125-41, 39-12) station. Until 1949 exported monazite was sent to hargann to await shipment to the Soviet Union. After 1949 it was carried by railroad to Artung in Mancharia.

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